

Step-by-Step Solutions  
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FROM THE MAKERS OF WOLFRAM LANGUAGE AND MATHEMATICA

WolframAlpha

$$x^{\log_{i\pi}\left(x^e\right)} = \pi$$



Input

$$x^{\log_{i\pi}\left(x^e\right)} = \pi$$



Exact result

$$x^{\log\left(x^e\right)/\log\left(i\pi\right)} = \pi$$



Alternate form assuming x>0

$$x^{\left(e\log\left(x\right)\right)/\left(\log\left(\pi\right)+\frac{i\pi}{2}\right)} = \pi$$



Alternate form

$$x^{\log\left(x^e\right)/\left(\log\left(\pi\right)+\frac{i\pi}{2}\right)} = \pi$$



$$x^{\left(2\log\left(x^e\right)\right)/\left(2\log\left(\pi\right)+i\pi\right)} = \pi$$



Alternate form assuming x is positive

$$x^{\left(e\log\left(x\right)\right)/\log\left(i\pi\right)} = \pi$$



Numerical solutions

$x \approx$   
-0.753275741702394069131783398115811954094455136360305200669228 $\cdot$   
7818761722715019258871174187696183283623831314413972272930 $\cdot$   
476983 +  
1.179924884973279820943622591775960263426012186289246840926528 $\cdot$   
313624989473997584987929047935597803168891950212597139939124 $\cdot$   
671  $i$ ...



$x \approx$   
-0.384393572934751987285646067296598338855195723950126537785450 $\cdot$   
0016465988227271435191194781181820369080572823635778911750 $\cdot$   
385269 -  
0.602110910016131999463564463568560018505789746519539438685627 $\cdot$   
363708790603683765926013155528183882911375219277869969165112 $\cdot$   
4424  $i$ ...



$x \approx$   
0.40942965092384159037765922765922291488165727849053735308845515 $\cdot$   
197517338787070090341851212823752794284205850478474642307681 $\cdot$   
84 -  
0.178024148928076503417044459644902233687011316026279310980582 $\cdot$   
577084953998674811651095025665802642564164057627937234205630 $\cdot$   
2673  $i$ ...



$x \approx$   
2.05407833844949090575456063201383825455486270346898832998166688 $\cdot$   
979661390252158686047806793634028282702131297071238244314042 $\cdot$   
7 +  
0.893134015108465526825941377703001414105931760609712926088592 $\cdot$   
327144510554645603702694338431070675358073837462303737227265 $\cdot$   
6058  $i$ ...



Fewer digits

More digits

POWERED BY THE WOLFRAM LANGUAGE

Related Queries:

$x^{\log(i\pi, x^e)} - \pi > 0$



analyze  
<http://www.preciousbreedables.com/images/precioushipp...>



$x^{\log(i\pi, x^e)} - \pi < 0$



second derivative  $x^{\log(i\pi, x^e)} - \pi$



analyze  
<http://peanutbutterportraits.files.wordpress.com/2012/03...>



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